

SECRET

APPENDIX I

OPERATIONS DATA

F-101B

F-104D

1. AIRCRAFT DATA:

a. Engine:

Two J-57-P-55

One J-79GE-7 With Variable
Nonale AD

b. Thrust:

16,900# Each

5,800# Each

c. Fuel:

(1) Main

13,546#

(1) Main

4,887#

(2) Internal Aux.

1,202#

(2) Tips

2,210#

(3) Pylon

5,858#

(3) Pylon

2,534#

Total

20,606#

Total

9,631#

d. Gross Weight:

(1) Clean

44,500#

(1) Clean

18,700#

(2) Max.

51,000#

(2) Tips & Pylon

24,400#

2. AIRCRAFT PERFORMANCE:

a. Climb:

(1) Clean

M = 1.65

(1) No external
stores

M = 2.0

(2) With Pylon

500KIAS

(2) With Tips

M = 1.9

(3) With Pylon

M = 1.5

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b. Take-Off Distance:
(4500 Ft Elevation)

(1) 44,500# $\frac{43^{\circ}\text{F}}{3200'}$ $\frac{100^{\circ}\text{F}}{4700'}$

(1) Clean $\frac{43^{\circ}\text{F}}{2400'}$ $\frac{100^{\circ}\text{F}}{3100'}$

(2) 51,000# 4200' 6200'

(2) Tips 3100' 4200'

(3) Tips & Pylons 6000' 8300'

c. Time to 35,000':

Estimated 3.0 minutes

1.5 minutes (Maximum Power)

d. Range:
No Reserve

(1) Clean 1350NM 2:45

(1) Clean 390NM 1:45

(2) Max. 1650NM 3:30

(2) Tips 1200NM 2:25

(3) Tips & Pylons 1400NM 2:50

e. Optimum Glide:

60NM from 40M

28NM from 40M

f. Approach Speed:

180 to 185K

180 to 185K

g. Landing Speed:

172 to 180K

172 to 180K

h. General Operation:

Twin engine for take-off and inflight practice. Fuel tank monitoring as in A-12.

Engine operation, AB, and variable nozzle much like A-12.

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APPENDIX II

MATERIEL DATA

1. AVAILABILITY:

F-101B
Approximately 350 in USAF inventory. No problem on getting four aircraft.

F-104D
Only 19 in USAF inventory. These are assigned to TAC, ANG and AFSC and cannot be obtained in the quantity required.

2. RELIABILITY:

AOCP Rate 1%
ANFE Rate 1%
NORM Rate 19%
NOR Other 21%
Total NOR 4%
OR Rate 25%
73%

AOCP Rate 3%
ANFE Rate 9%
NORM Rate 18%
NOR Other 30%
Total NOR 5%
OR Rate 35%
65%

3. LOGISTIC SUPPORT:

Excellent - No Problems
Prime Depot - Ogden AMA
Support Base - Oxnard AFB, Calif.

Fair - Many Problems
Prime Depot - Sacramento AMA
Support Base - George AFB, Calif.

4. ENGINE:

J-57-P-55 - Very reliable - no maintenance problems. Extensively used.
JEFM every 400 hours.
Overhaul every 2520 hours.
PW Technical Representative available.

J-79-GE-7 - Continual maintenance problems. Limited usage and in short supply.
JEFM every 110 hours.
Overhaul every 160 hours.
No technical representative readily available.

5. COST PER FLYING HOUR:

*Maintenance \$400.00
Fuel 129.00
TOTAL \$529.00

*Maintenance \$472.00
Fuel 71.00
TOTAL \$543.00

* Includes personnel and materiel costs.

* Includes personnel and materiel costs.

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<u>6. ESTIMATED FLYING HOUR RATE:</u>		35 hours per month	25 hours per month
<u>7. NUMBER OF AIRCRAFT REQUIRED:</u>		4	5 to 6
<u>8. MILITARY PERSONNEL REQUIREMENTS:</u>			Same personnel requirements as F-101B for supporting four aircraft. Proportionate increase to support 5 to 6 aircraft.
Maintenance Off.	4313	1	
Maintenance Sup.	43190	1	
Jet Mechanic	43151C	6	
Electrician	42350	2	
Hydraulic	42152	1	
Instrument	42250	1	
Engine Mech.	43270	2	
Radio Mech	30150	1	
AGE Tech	42153	2	
Supply	64650	<u>1</u>	
TOTAL		18	

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